

Gulf of Mexico Harmful Algal Bloom Bulletin

29 December 2006

NOAA Ocean Service NOAA Satellites and Information Service Last bulletin: December 28, 2006

Conditions Report

A harmful algal bloom has been identified in patches from southern Sarasota to Collier Counties and in Monroe County, north and west of the Keys. From today through Sunday and on Tuesday, patchy very low impacts are possible in southern Collier County. On Monday, patchy low impacts are possible in southern Collier County, and patchy very low impacts are possible in southern Sarasota and southern Charlotte Counties. No other impacts are expected today through Tuesday throughout the identified bloom region.

Analysis

This bulletin is being issued as supplemental due to the upcoming federal holidays. Due to federal government closures for New Years Day and in remembrance for former President Gerald R. Ford, the next bulletin will be issued on Wednesday, January 3, 2007.

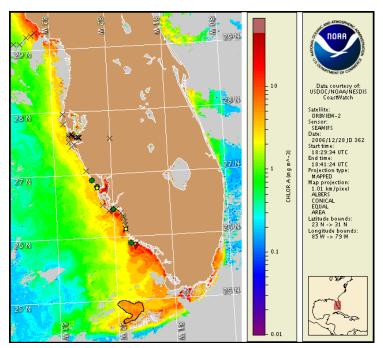
A harmful algal bloom persists at the coast in patches from southern Sarasota to Collier Counties, and additionally in offshore portions of Charlotte County. Very low to background concentrations of *K. brevis* were reported by FWRI at Naples Pier and Marco Island, southern Collier County, and in southern Charlotte County at Gasparilla Fishing Pier on 12/28. Chlorophyll levels continue to appear elevated up to $16\mu g/L$ in a patch south of Sanibel Island from $26^{\circ}25.4^{\circ}N$, $82^{\circ}2.9^{\circ}W$ to $26^{\circ}21.4^{\circ}N$, $81^{\circ}55.2^{\circ}W$ and in a second patch southwest of Naples, centralized at $26^{\circ}5.8^{\circ}N$, $81^{\circ}50.6^{\circ}W$. In southern Collier County, chlorophyll levels are elevated from $9-20\mu g/L$ south of Cape Romano, centralized at $25^{\circ}49.5^{\circ}N$, $81^{\circ}43.1^{\circ}W$ and in a band alongshore from $25^{\circ}52^{\circ}N$, $81^{\circ}37.5^{\circ}W$ to $25^{\circ}43.7^{\circ}N$, $81^{\circ}23.4^{\circ}W$. Slight intensification of *K. brevis* is possible through Sunday. Slight offshore southerly transport of *K. brevis* is possible through Tuesday.

In the Florida Keys region, chlorophyll levels are elevated well offshore to the north in a patch centralized at 25°20.4'N, 82°28.7'W. Additionally, chlorophyll levels are elevated just north of the Lower Keys from 25°0'N, 81°57.9'W to 24°44'N, 81°42.6'W, and continuing west to 24°36'N, 81°58.6'W. Slight westward transport is possible through Tuesday.

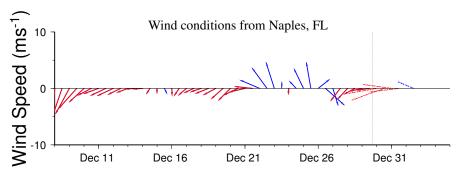
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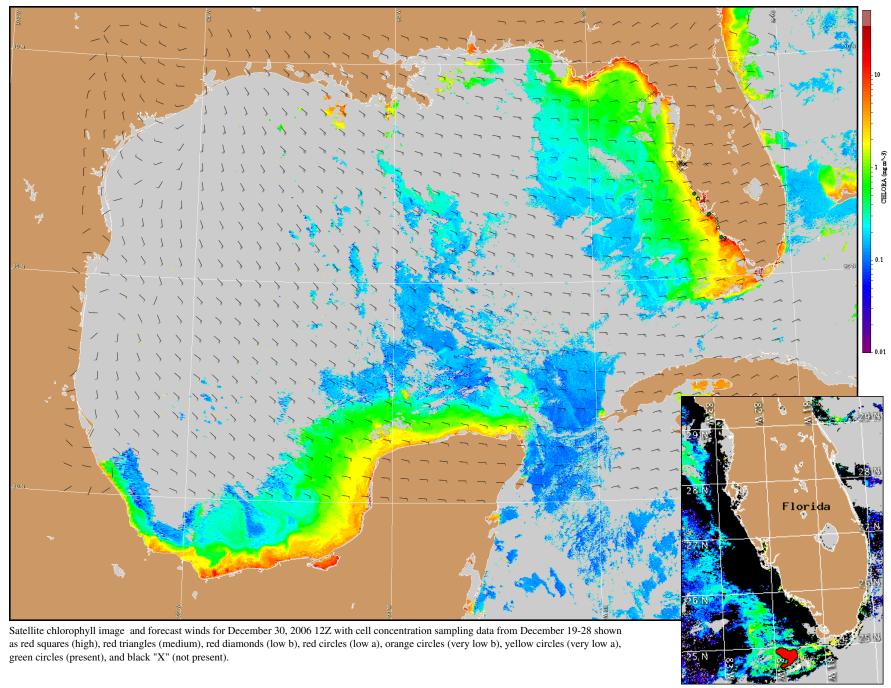
Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration categories and corresponding cell count values from Florida Fish and Wildlife Research Institute. For a key to the cell concentration descriptions, visit http://research.myfwc.com.Cell concentration sampling data from December 19-28 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



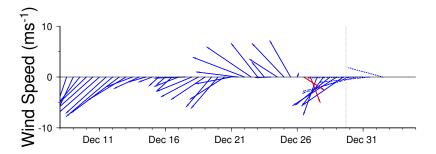
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Winds will be east (15 kts, 8 m/s) today and tomorrow, southeast (15 kts, 8 m/s) Sunday, southeast becoming southwest (15 kts, 8 m/s) Monday, north (10 kts, 5 m/s) Tuesday.

FL Keys: Winds will be east (15 kts, 8 m/s) today, east (20 kts, 10 m/s) tomorrow, southeast (15 kts, 8 m/s) Sunday, east to southeast (15 kts, 8 m/s) Monday and Tuesday.



Verifi ed HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).



Wind conditions from Venice Pier, FL

